

**Module 02: Digital Devices**

1. The central processing unit (CPU) of most modern computers is a microprocessor.
- a. True
  - b. False

ANSWER: True  
POINTS: 1  
REFERENCES: Computers  
QUESTION TYPE: True / False  
HAS VARIABLES: False  
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2. Processing is handled by the computer's CPU.
- a. True
  - b. False

ANSWER: True  
POINTS: 1  
REFERENCES: Computers  
QUESTION TYPE: True / False  
HAS VARIABLES: False  
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3. The term *stored program* means that a series of instructions for a computing task can be loaded into a computer's memory.
- a. True
  - b. False

ANSWER: True  
POINTS: 1  
REFERENCES: Computers  
QUESTION TYPE: True / False  
HAS VARIABLES: False  
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4. The ability to switch between programs makes computers multipurpose devices.
- a. True
  - b. False

ANSWER: True  
POINTS: 1  
REFERENCES: Computers  
QUESTION TYPE: True / False  
HAS VARIABLES: False  
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5. System software is a set of computer programs that helps a person carry out a task.

- a. True
- b. False

**ANSWER:** False

**POINTS:** 1

**REFERENCES:** Computers

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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6. An example of system software is a computer operating system.

- a. True
- b. False

**ANSWER:** True

**POINTS:** 1

**REFERENCES:** Computers

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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7. Semiconductors are substances with properties between those of a conductor and an insulator.

- a. True
- b. False

**ANSWER:** True

**POINTS:** 1

**REFERENCES:** Circuits and Chips

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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8. A dual in-line package (DIP) is a square chip package, typically used for microprocessors, with pins arranged in concentric squares.

- a. True
- b. False

**ANSWER:** False

**POINTS:** 1

**REFERENCES:** Circuits and Chips

**QUESTION TYPE:** True / False

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*HAS VARIABLES:* False

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9. Land-grid arrays (LGAs) have two rows of pins that connect the chip to a circuit board.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Circuits and Chips

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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10. Component systems are currently the most popular form factor for digital devices.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Components

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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11. Battery lifespan is the time your device operates before it must be recharged.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Maintenance

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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12. Battery life is the time your device operates before it must be recharged.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Maintenance

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*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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13. A desktop is a portable computing device featuring a touch-sensitive screen that can be used for input as well as for output.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Personal Computers

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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14. A slate tablet configuration is basically a screen in a narrow frame that lacks a physical keyboard.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Personal Computers

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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15. Smartphones evolved from basic cell phones and personal digital assistants (PDAs).

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Personal Computers

*QUESTION TYPE:* True / False

*HAS VARIABLES:* False

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16. The operating systems for smartphones are radically different to those used for tablet computers.

- a. True
- b. False

*ANSWER:* False

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*POINTS:* 1  
*REFERENCES:* Personal Computers  
*QUESTION TYPE:* True / False  
*HAS VARIABLES:* False  
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17. Smartwatches are multifunction devices that can include a camera, thermometer, compass, calculator, cell phone, global positioning system (GPS), media player, and fitness tracker.

- a. True
- b. False

*ANSWER:* True  
*POINTS:* 1  
*REFERENCES:* Niche Devices  
*QUESTION TYPE:* True / False  
*HAS VARIABLES:* False  
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18. Computers with the same operating systems can typically use the same software and peripheral devices.

- a. True
- b. False

*ANSWER:* True  
*POINTS:* 1  
*REFERENCES:* Choosing a Digital Device  
*QUESTION TYPE:* True / False  
*HAS VARIABLES:* False  
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19. Intel Corporation is the world's largest chipmaker and supplies a sizeable percentage of the microprocessors that power desktops and laptops.

- a. True
- b. False

*ANSWER:* True  
*POINTS:* 1  
*REFERENCES:* Microprocessors  
*QUESTION TYPE:* True / False  
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20. Modern processors follow Intel's original numbering sequence.

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- a. True
- b. False

**ANSWER:** False  
**POINTS:** 1  
**REFERENCES:** Microprocessors  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
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21. The Intel i7 microprocessor is x86 compatible.

- a. True
- b. False

**ANSWER:** True  
**POINTS:** 1  
**REFERENCES:** Microprocessors  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
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22. Athlon and A-series processors manufactured by AMD are NOT x86 compatible.

- a. True
- b. False

**ANSWER:** False  
**POINTS:** 1  
**REFERENCES:** Microprocessors  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
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23. ARM-based processors are not especially energy efficient.

- a. True
- b. False

**ANSWER:** False  
**POINTS:** 1  
**REFERENCES:** Microprocessors  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
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24. x86 processors use a different instruction set than ARM processors.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: How Processors Work

QUESTION TYPE: True / False

HAS VARIABLES: False

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25. The term *instruction cycle* refers to the process in which a computer executes a single instruction.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: How Processors Work

QUESTION TYPE: True / False

HAS VARIABLES: False

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26. During an instruction cycle, all parts of the instruction are performed by the microprocessor's control unit.

- a. True
- b. False

ANSWER: False

POINTS: 1

REFERENCES: How Processors Work

QUESTION TYPE: True / False

HAS VARIABLES: False

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27. Most computer ads specify the speed of a microprocessor in gigahertz.

- a. True
- b. False

ANSWER: True

POINTS: 1

REFERENCES: Performance

QUESTION TYPE: True / False

HAS VARIABLES: False

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28. A multicore processor that executes more than one instruction at a time is referred to as a parallel processor.

- a. True
- b. False

**ANSWER:** True  
**POINTS:** 1  
**REFERENCES:** Performance  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 7:11 AM  
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29. Random access memory (RAM) is volatile.

- a. True
- b. False

**ANSWER:** True  
**POINTS:** 1  
**REFERENCES:** Random Access Memory  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 7:13 AM  
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30. Read-only memory (ROM) is temporary and volatile. RAM is more permanent and non-volatile.

- a. True
- b. False

**ANSWER:** False  
**POINTS:** 1  
**REFERENCES:** Read-only Memory  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 7:16 AM  
**DATE MODIFIED:** 7/28/2017 7:17 AM

31. A hard disk drive is an example of magnetic storage.

- a. True
- b. False

**ANSWER:** True  
**POINTS:** 1  
**REFERENCES:** Magnetic Storage Technology  
**QUESTION TYPE:** True / False  
**HAS VARIABLES:** False  
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32. Solid state storage stores data in erasable, rewritable circuitry, rather than on spinning disks, tape, or optical media.

- a. True
- b. False

**ANSWER:** True

**POINTS:** 1

**REFERENCES:** Solid State Storage Technology

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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33. Memory cards are typically volatile.

- a. True
- b. False

**ANSWER:** False

**POINTS:** 1

**REFERENCES:** Solid State Storage Technology

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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34. A solid state drive can be used as a substitute for a hard disk drive.

- a. True
- b. False

**ANSWER:** True

**POINTS:** 1

**REFERENCES:** Solid State Storage Technology

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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35. All remote storage is considered to be cloud storage.

- a. True
- b. False

**ANSWER:** False

**POINTS:** 1

**REFERENCES:** Cloud Storage

**QUESTION TYPE:** True / False

**HAS VARIABLES:** False

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36. When a peripheral device is connected or disconnected while the host device is operating, it is called hot-plugging.

- a. True
- b. False

*ANSWER: True*

*POINTS: 1*

*REFERENCES: Expansion Ports*

*QUESTION TYPE: True / False*

*HAS VARIABLES: False*

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37. In a display device, response rate is the time it takes for one pixel to change from black to white then back to black.

- a. True
- b. False

*ANSWER: True*

*POINTS: 1*

*REFERENCES: Display Devices*

*QUESTION TYPE: True / False*

*HAS VARIABLES: False*

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38. A laser printer has a nozzle-like print head that sprays ink onto paper to form characters and graphics.

- a. True
- b. False

*ANSWER: False*

*POINTS: 1*

*REFERENCES: Printers*

*QUESTION TYPE: True / False*

*HAS VARIABLES: False*

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39. \_\_\_\_\_ is data that is entered into a computer. \_\_\_\_\_ is the result produced by a computer.

- a. Output, Input
- b. Input, Output
- c. Information, Binary data
- d. None of the above

*ANSWER: b*

*POINTS: 1*

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*REFERENCES:* Computers  
*QUESTION TYPE:* Multiple Choice  
*HAS VARIABLES:* False  
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40. Most computers have temporary holding areas called \_\_\_\_\_.
- a. output
  - b. microprocessor
  - c. CPU
  - d. RAM

*ANSWER:* d  
*POINTS:* 1  
*REFERENCES:* Computers  
*QUESTION TYPE:* Multiple Choice  
*HAS VARIABLES:* False  
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41. The primary purpose of \_\_\_\_\_ software is to help the computer system monitor itself in order to function efficiently.
- a. system
  - b. application
  - c. input
  - d. memory

*ANSWER:* a  
*POINTS:* 1  
*REFERENCES:* Computers  
*QUESTION TYPE:* Multiple Choice  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 7:35 AM  
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42. The electronic components of most digital devices are mounted on a circuit board called a \_\_\_\_\_.
- a. system board
  - b. motherboard
  - c. main board
  - d. all of the above

*ANSWER:* d  
*POINTS:* 1  
*REFERENCES:* Circuits and Chips  
*QUESTION TYPE:* Multiple Choice  
*HAS VARIABLES:* False

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43. The term \_\_\_\_\_ refers to the part of a digital device that holds the system board.
- a. form factor
  - b. CPU
  - c. peripheral
  - d. system unit

ANSWER: d

POINTS: 1

REFERENCES: Components

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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44. The most popular battery type used in today's electronic devices is \_\_\_\_\_.
- a. nickel-cadmium
  - b. alkaline
  - c. lithium ion
  - d. none of the above

ANSWER: c

POINTS: 1

REFERENCES: Maintenance

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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45. Many touchscreens have a(n) \_\_\_\_\_ coating designed to repel the oils deposited by fingers that tap and swipe the screen.
- a. gorilla
  - b. granular
  - c. semiconductive
  - d. oleophobic

ANSWER: d

POINTS: 1

REFERENCES: MAINTENANCE

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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46. Which of the following is NOT a type of digital video container file?

- a. MP4
- b. AVI (Audio Video Interleave)
- c. VOB (Video Object)
- d. PNG (Portable Network Graphics)

ANSWER: d

POINTS: 1

REFERENCES: VIDEO FILE FORMATS

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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47. At its time of construction, one of the fastest computers in the world is referred to as a(n) \_\_\_\_\_.

- a. mainframe
- b. supercomputer
- c. minicomputer
- d. all of the above

ANSWER: b

POINTS: 1

REFERENCES: Enterprise Computers

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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48. Originally called microcomputers, \_\_\_\_\_ are designed to meet the computing needs of individuals.

- a. mainframes
- b. personal computers
- c. microcomputers
- d. servers

ANSWER: b

POINTS: 1

REFERENCES: Personal Computers

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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49. Which of the following is an example of a computer that is a small, lightweight personal computer that is designed like a clam shell?

- a. Desktop computer
- b. Laptop computer

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- c. Server
- d. Tablet

**ANSWER:** b  
**POINTS:** 1  
**REFERENCES:** Personal Computers  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 7:52 AM  
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50. Which of the following is an example of an operating system that is used by smartphones?
- a. iOS
  - b. Android
  - c. Windows Mobile
  - d. All of the above

**ANSWER:** d  
**POINTS:** 1  
**REFERENCES:** Personal Computers  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
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51. Modern refrigerators, washing machines, and other appliances are controlled by integrated circuits called \_\_\_\_\_ that combine sensors with processing circuitry.
- a. microcontrollers
  - b. microcomputers
  - c. servers
  - d. microdevices

**ANSWER:** a  
**POINTS:** 1  
**REFERENCES:** Niche Devices  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 7:56 AM  
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52. What type of computer should you consider purchasing if you want a system that is ideal for dedicated gamers, serious designers, desktop publishers, and video editors?
- a. Laptop
  - b. Desktop
  - c. Tablet
  - d. Smartphone

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**ANSWER:** b  
**POINTS:** 1  
**REFERENCES:** Choosing a Digital Device  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
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53. What type of computer should you consider purchasing if you want a portable system that is great for consuming content such as books, music, and videos but not so great for creating content or multitasking?

- a. Tablet
- b. Smartphone
- c. Desktop
- d. Laptop

**ANSWER:** a  
**POINTS:** 1  
**REFERENCES:** Choosing a Digital Device  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 8:02 AM  
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54. What type of computer should you consider purchasing if you want a portable system that is good for students and on-the-go professionals who want to create content and be productive, in addition to consuming content?

- a. Desktop
- b. Laptop
- c. Tablet
- d. Smartphone

**ANSWER:** b  
**POINTS:** 1  
**REFERENCES:** Choosing a Digital Device  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 8:03 AM  
**DATE MODIFIED:** 7/28/2017 8:05 AM

55. A(n) \_\_\_\_\_ contains a collection of instructions for actions that the circuitry in a microprocessor can perform.

- a. ALU (Arithmetic Logic Unit)
- b. ARM
- c. PCS (Processor Command Set)
- d. instruction set

**ANSWER:** d

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**POINTS:** 1  
**REFERENCES:** How Processors Work  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
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56. Microprocessors can't directly understand programming languages, so programs have to be converted into \_\_\_\_\_ that corresponds to the microprocessor's instruction set.

- a. application
- b. machine language
- c. microprocessor
- d. ARM

**ANSWER:** b  
**POINTS:** 1  
**REFERENCES:** How Processors Work  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 8:06 AM  
**DATE MODIFIED:** 7/28/2017 8:08 AM

57. In a microprocessor, the \_\_\_\_\_ fetches instructions.

- a. ALU
- b. register
- c. CPU
- d. control unit

**ANSWER:** d  
**POINTS:** 1  
**REFERENCES:** How Processors Work  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
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58. Processors that execute one instruction at a time are considered to be \_\_\_\_\_ processors.

- a. serial
- b. parallel
- c. pipeline
- d. none of the above

**ANSWER:** a  
**POINTS:** 1  
**REFERENCES:** Performance  
**QUESTION TYPE:** Multiple Choice



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59. \_\_\_\_\_ is a temporary holding area for data and programs.

- a. CISC (complex instruction set computer)
- b. RAM
- c. ROM
- d. RISC (reduced instruction set computer)

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* Random Access Memory

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

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60. Which of the following is an important consideration when evaluating storage options for digital devices?

- a. Durability
- b. Dependability
- c. Capacity
- d. All of the above

*ANSWER:* d

*POINTS:* 1

*REFERENCES:* Storage Basics

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

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61. Which of the following is an example of why hard disk drives are so popular?

- a. They are not susceptible to a head crash.
- b. They have relatively low cost for lots of storage.
- c. They are volatile.
- d. All of the above.

*ANSWER:* b

*POINTS:* 1

*REFERENCES:* Magnetic Storage Technology

*QUESTION TYPE:* Multiple Choice

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62. \_\_\_\_\_ is the amount of data a storage device can move per second from the storage medium to RAM.

- a. Access time
- b. Data transfer rate
- c. Bit rate
- d. RPM

ANSWER: b

POINTS: 1

REFERENCES: Magnetic Storage Technology

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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63. Which optical storage technology stores data permanently on a disc, which cannot be subsequently added to or changed?

- a. Read-only
- b. Recordable
- c. Rewritable
- d. None of the above

ANSWER: a

POINTS: 1

REFERENCES: Optical Storage Technology

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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64. Which of the following is NOT drawback of using cloud storage?

- a. Increased security risk
- b. High price of storage
- c. Possible service outage
- d. Discontinuation of service

ANSWER: b

POINTS: 1

REFERENCES: Cloud Storage

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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65. The main circuits on the system board that carry data are called the \_\_\_\_\_.

- a. ROM
- b. RAM

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- c. expansion bus
- d. data bus

**ANSWER:** d  
**POINTS:** 1  
**REFERENCES:** Expansion Ports  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 8:29 AM  
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66. The part of the data bus that runs between the microprocessor and RAM is called the \_\_\_\_\_ bus.
- a. local
  - b. expansion
  - c. USB
  - d. network

**ANSWER:** a  
**POINTS:** 1  
**REFERENCES:** Expansion Ports  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 8:40 AM  
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67. Which of the following is NOT an example of an expansion port?
- a. Thunderbolt
  - b. USB 3.0
  - c. HDMI
  - d. RAM

**ANSWER:** d  
**POINTS:** 1  
**REFERENCES:** Expansion Ports  
**QUESTION TYPE:** Multiple Choice  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 8:42 AM  
**DATE MODIFIED:** 7/28/2017 8:44 AM

68. A \_\_\_\_\_ is software that helps a peripheral device establish communication with its host device.
- a. device hub
  - b. device driver
  - c. hot-plug
  - d. data bus

**ANSWER:** b  
**POINTS:** 1

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*REFERENCES:* Device Drivers and Apps

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 8:44 AM

*DATE MODIFIED:* 7/28/2017 8:45 AM

69. The advantages of liquid crystal display (LCD) screens include \_\_\_\_\_.

- a. display clarity
- b. low radiation emission
- c. portability
- d. all of the above

*ANSWER:* d

*POINTS:* 1

*REFERENCES:* Display Devices

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 8:46 AM

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70. Self-driving vehicles use a(n) \_\_\_\_\_ algorithm to gather data, analyze it, and then carry out required actions.

- a. sense-plan-act
- b. autonomous
- c. Boolean
- d. RPG

*ANSWER:* a

*POINTS:* 1

*REFERENCES:* Autonomous Vehicles

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 8:49 AM

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71. Which of the following sensors would be most useful for helping a drone remain level as it flies?

- a. Accelerometer
- b. Magnetometer
- c. Gyro sensor
- d. Aero

*ANSWER:* c

*POINTS:* 1

*REFERENCES:* Things

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

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*DATE CREATED:* 7/28/2017 8:53 AM

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72. Which of the following sensors would best help an autonomous vehicle calculate the distance to an object?

- a. Lidar
- b. Magnetometer
- c. INS
- d. GPS

*ANSWER:* a

*POINTS:* 1

*REFERENCES:* Autonomous Vehicles

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 8:55 AM

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73. An INS would most likely be found in a(n) \_\_\_\_\_.

- a. supercomputer
- b. laptop
- c. smart appliance
- d. autonomous vehicle

*ANSWER:* d

*POINTS:* 1

*REFERENCES:* Autonomous Vehicles

*QUESTION TYPE:* Multiple Choice

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 8:57 AM

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74. A(n) \_\_\_\_\_ is a multipurpose device that accepts input, processes data, stores data, and produces output, all according to a series of stored instructions.

*ANSWER:* computer

*POINTS:* 1

*REFERENCES:* Computers

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 8:58 AM

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75. Keyboards and printers are two examples of \_\_\_\_\_ devices.

*ANSWER:* peripheral

*POINTS:* 1

*REFERENCES:* Computers

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*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 8:59 AM

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76. Computers process \_\_\_\_\_ by performing calculations, modifying documents and pictures, drawing graphs, and sorting lists of words or numbers.

*ANSWER:* data

*POINTS:* 1

*REFERENCES:* Computers

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 9:04 AM

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77. Instructions that tell a computer how to carry out processing tasks are referred to as a computer \_\_\_\_\_.

*ANSWER:* program, application

*POINTS:* 1

*REFERENCES:* Computers

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 9:07 AM

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78. The collection of programs on a computer is referred to as \_\_\_\_\_.

*ANSWER:* software

*POINTS:* 1

*REFERENCES:* Computers

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 9:09 AM

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79. Computers run three main types of software: application software, development tools, and \_\_\_\_\_ software.

*ANSWER:* system

*POINTS:* 1

*REFERENCES:* Computers

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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80. Software applications are sometimes referred to as \_\_\_\_\_, especially in the context of handheld devices.

*ANSWER:* apps, app

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*POINTS:* 1  
*REFERENCES:* Computers  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 9:12 AM  
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81. An integrated circuit is a set of microscopic electronic circuits etched onto a thin slice of \_\_\_\_\_ material such as silicon.

*ANSWER:* semiconducting, semiconductor  
*POINTS:* 1  
*REFERENCES:* Circuits and Chips  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 9:13 AM  
*DATE MODIFIED:* 7/28/2017 9:14 AM

82. The \_\_\_\_\_ houses all essential chips and provides connecting circuitry between them.

*ANSWER:* system board, motherboard, main board  
*POINTS:* 1  
*REFERENCES:* Circuits and Chips  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 9:14 AM  
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83. In the computer industry, the term \_\_\_\_\_ refers to the size and dimensions of a device or components.

*ANSWER:* form factor  
*POINTS:* 1  
*REFERENCES:* Components  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 9:16 AM  
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84. \_\_\_\_\_ device has a keyboard as the base and a screen on the hinged cover.

*ANSWER:* Clamshell, Notebook, Laptop  
*POINTS:* 1  
*REFERENCES:* Components  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 9:23 AM  
*DATE MODIFIED:* 7/28/2017 9:24 AM

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85. The \_\_\_\_\_ form factor features a touchscreen that covers most of the device's surface.

ANSWER: slate, tablet

POINTS: 1

REFERENCES: Components

QUESTION TYPE: Completion

HAS VARIABLES: False

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86. Many touchscreens have a(n) \_\_\_\_\_ coating designed to repel the oils deposited by fingertips.

ANSWER: oleophobic

POINTS: 1

REFERENCES: Maintenance

QUESTION TYPE: Completion

HAS VARIABLES: False

DATE CREATED: 7/28/2017 10:13 AM

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87. A large, closet-sized computer capable of simultaneously processing data for hundreds or thousands of users is most likely a \_\_\_\_\_ computer.

ANSWER: mainframe

POINTS: 1

REFERENCES: Enterprise Computers

QUESTION TYPE: Completion

HAS VARIABLES: False

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88. A computer that is primarily used to distribute data to other computers on a network is called a(n) \_\_\_\_\_.

ANSWER: server

POINTS: 1

REFERENCES: Enterprise Computers

QUESTION TYPE: Completion

HAS VARIABLES: False

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89. A(n) \_\_\_\_\_ is a special category of laptop, designed to be connected to the Internet for most routine computing activities.

ANSWER: Chromebook

POINTS: 1

REFERENCES: Personal Computers

QUESTION TYPE: Completion

HAS VARIABLES: False



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90. \_\_\_\_\_ is/are mobile devices that have features similar to tablet computers but also provide telecommunications capabilities over cell phone networks.

*ANSWER:* Smartphones, Smartphone

*POINTS:* 1

*REFERENCES:* Personal Computers

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 10:20 AM

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91. Smartwatches, smartglasses, and fitness trackers can be classified as \_\_\_\_\_ computers.

*ANSWER:* wearable

*POINTS:* 1

*REFERENCES:* Niche Devices

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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92. Digital devices, such as Kindle, that are designed for displaying the content of digital publications, such as books, magazines, and newspapers are referred to as \_\_\_\_\_.

*ANSWER:* eReaders, e-readers, ebook readers

*POINTS:* 1

*REFERENCES:* Niche Devices

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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93. To monitor activity throughout the day, you can wear a(n) \_\_\_\_\_ tracker. These devices, worn on the wrist or clipped to a pocket, monitor your steps and heart rate.

*ANSWER:* fitness, activity

*POINTS:* 1

*REFERENCES:* Niche Devices

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 10:32 AM

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94. Computers that operate in essentially the same way and use the same software are said to be \_\_\_\_\_.

*ANSWER:* compatible

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*POINTS:* 1  
*REFERENCES:* Choosing a Digital Device  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 10:33 AM  
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95. A(n) \_\_\_\_\_ is an integrated circuit designed to process instructions.

*ANSWER:* microprocessor  
*POINTS:* 1  
*REFERENCES:* Microprocessors  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 10:34 AM  
*DATE MODIFIED:* 7/28/2017 10:35 AM

96. In 1971, Intel introduced the world's first microprocessor called the \_\_\_\_\_.

*ANSWER:* 4004  
*POINTS:* 1  
*REFERENCES:* Microprocessors  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 10:35 AM  
*DATE MODIFIED:* 7/28/2017 10:37 AM

97. The \_\_\_\_\_ chip family was the precursor to the x64 architecture that has become the standard for most laptop and desktop computers.

*ANSWER:* 8086, x86  
*POINTS:* 1  
*REFERENCES:* Microprocessors  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 10:38 AM  
*DATE MODIFIED:* 7/28/2017 10:41 AM

98. The processors that are found in just about all desktop and laptop computers are \_\_\_\_\_ compatible.

*ANSWER:* x86  
*POINTS:* 1  
*REFERENCES:* Microprocessors  
*QUESTION TYPE:* Completion  
*HAS VARIABLES:* False  
*DATE CREATED:* 7/28/2017 10:42 AM  
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99. Processors based on \_\_\_\_ technology dominate tablet computers and smartphones.

**ANSWER:** ARM

**POINTS:** 1

**REFERENCES:** Microprocessors

**QUESTION TYPE:** Completion

**HAS VARIABLES:** False

**DATE CREATED:** 7/28/2017 10:43 AM

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100. Microprocessors are hard-wired to perform a limited, preprogrammed set of activities called a(n) \_\_\_\_\_.

**ANSWER:** instruction set

**POINTS:** 1

**REFERENCES:** How Processors Work

**QUESTION TYPE:** Completion

**HAS VARIABLES:** False

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101. The \_\_\_\_\_ is the part of the microprocessor that performs arithmetic operations, such as addition and subtraction.

**ANSWER:** ALU, arithmetic logic unit

**POINTS:** 1

**REFERENCES:** How Processors Work

**QUESTION TYPE:** Completion

**HAS VARIABLES:** False

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102. The ALU uses \_\_\_\_\_ to hold data that is being processed.

**ANSWER:** registers

**POINTS:** 1

**REFERENCES:** How Processors Work

**QUESTION TYPE:** Completion

**HAS VARIABLES:** False

**DATE CREATED:** 7/28/2017 10:49 AM

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103. When a program begins, the memory address of the first instruction is placed in a part of the microprocessor's control unit called a(n) \_\_\_\_\_.

**ANSWER:** instruction pointer, IP

**POINTS:** 1

**REFERENCES:** How Processors Work

**QUESTION TYPE:** Completion

**HAS VARIABLES:** False

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104. In a processor, the timing device that sets the pace for executing instructions is called the \_\_\_\_\_.

*ANSWER:* microprocessor clock

*POINTS:* 1

*REFERENCES:* Performance

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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105. A microprocessor that contains circuitry for more than one processing unit is called a \_\_\_\_\_ processor.

*ANSWER:* multicore, multi-core, multi core

*POINTS:* 1

*REFERENCES:* Performance

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 10:53 AM

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106. A(n) \_\_\_\_\_ is special high-speed memory that allows a microprocessor to access data more rapidly than from memory located elsewhere on the system board.

*ANSWER:* CPU cache, cache

*POINTS:* 1

*REFERENCES:* Performance

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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107. If a program exceeds its allocated space, the operating system may use an area of the hard disk or other storage device as \_\_\_\_\_ memory.

*ANSWER:* virtual

*POINTS:* 1

*REFERENCES:* Random Access Memory

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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108. \_\_\_\_\_ is the term used for the components of a digital device designed to hold data permanently.

*ANSWER:* Storage, Permanent storage

*POINTS:* 1

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*REFERENCES:* Storage Basics

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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109. \_\_\_\_\_ storage represents data as microscopic light and dark spots on a disc surface.

*ANSWER:* Optical

*POINTS:* 1

*REFERENCES:* Optical Storage Technology

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 10:58 AM

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110. Remote storage that is available as an Internet service is called \_\_\_\_\_ storage.

*ANSWER:* cloud

*POINTS:* 1

*REFERENCES:* Cloud Storage

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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111. A(n) \_\_\_\_\_ is a copy of one or more files that is made in case the originals become damaged.

*ANSWER:* backup, data backup

*POINTS:* 1

*REFERENCES:* Backup

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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112. A(n) \_\_\_\_\_ contains parts of the operating system necessary to boot your computer and diagnose system problems after a hard drive failure or software malfunction.

*ANSWER:* recovery drive, system repair disc

*POINTS:* 1

*REFERENCES:* Backup

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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113. A(n) \_\_\_\_\_ is a bit-for-bit copy of the data from all sectors of a hard disk.

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**ANSWER:** disk image  
**POINTS:** 1  
**REFERENCES:** Backup  
**QUESTION TYPE:** Completion  
**HAS VARIABLES:** False  
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114. The term \_\_\_\_\_ device is used for devices such as printers, display devices, storage devices, mice, and headsets that are connected to the system unit of a computer.

**ANSWER:** peripheral  
**POINTS:** 1  
**REFERENCES:** Add-on Gadgets  
**QUESTION TYPE:** Completion  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 11:14 AM  
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115. Ports that expand the options for input, output, and storage, are commonly called \_\_\_\_\_ ports.

**ANSWER:** expansion  
**POINTS:** 1  
**REFERENCES:** Expansion Ports  
**QUESTION TYPE:** Completion  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 11:16 AM  
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116. A USB \_\_\_\_\_ is an inexpensive device that turns one USB port into multiple ports.

**ANSWER:** hub  
**POINTS:** 1  
**REFERENCES:** Expansion Ports  
**QUESTION TYPE:** Completion  
**HAS VARIABLES:** False  
**DATE CREATED:** 7/28/2017 11:17 AM  
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117. A common wireless technology for connecting peripherals is \_\_\_\_\_.

**ANSWER:** Bluetooth  
**POINTS:** 1  
**REFERENCES:** Bluetooth  
**QUESTION TYPE:** Completion  
**HAS VARIABLES:** False  
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118. In a display device, \_\_\_\_\_ is the distance in millimeters between like-colored light-emitting diodes (LEDs).

*ANSWER:* dot pitch, dp

*POINTS:* 1

*REFERENCES:* Display Devices

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

*DATE CREATED: 7/28/2017 11:20 AM*

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119. The number of horizontal and vertical pixels that a device displays on the screen is referred to as screen \_\_\_\_\_.

*ANSWER:* resolution

*POINTS:* 1

*REFERENCES:* Display Devices

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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120. A graphics card contains a(n) \_\_\_\_\_ and special video memory, which store screen images as they are processed but before they are displayed.

*ANSWER:* graphics processing unit , GPU

*POINTS:* 1

*REFERENCES:* Display Devices

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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121. A(n) \_\_\_\_\_ printer has a nozzle-like print head that sprays ink onto paper to form characters and graphics.

*ANSWER:* ink jet, ink-jet, inkjet

*POINTS:* 1

*REFERENCES:* Printers

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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122. A(n) \_\_\_\_\_ measures the rate at which a device accelerates.

*ANSWER:* accelerometer

*POINTS:* 1

*REFERENCES:* Things

*QUESTION TYPE:* Completion

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*HAS VARIABLES:* False

*DATE CREATED:* 7/28/2017 11:32 AM

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123. A(n) \_\_\_\_\_ sensor gauges angular velocity—the change in rotational angle.

*ANSWER:* gyro

*POINTS:* 1

*REFERENCES:* Things

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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124. A(n) \_\_\_\_\_ measures magnetic fields and can be used as a compass to determine orientation relative to magnetic north.

*ANSWER:* magnetometer

*POINTS:* 1

*REFERENCES:* Things

*QUESTION TYPE:* Completion

*HAS VARIABLES:* False

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